

VOLUME CONTENTS

Volume 2, Number 1

1989

B. A. Wills 1 Editorial

N. A. Warner 3 Advanced technology for smelting McArthur River ore

E. G. Kelly and D. J. Spottiswood 33 The theory of electrostatic separations: a review. Part I. Fundamentals

I. J. Lin 47 The effect of seasonal variations in temperature on the performance of mineral processing plants

S. Subramanian and K. A. Natarajan 55 Adsorption behaviour of an oxidised starch onto haematite in the presence of calcium

S. R. Rao and J. A. Finch 65 A review of water re-use in flotation

P. Tucker and K. A. Lewis 87 An expert system for shaking table diagnostics

B.-M. Antti and E. Forssberg 93 Pulp chemistry in calcite flotation. Modelling of oleate adsorption using theoretical equilibrium calculations

C. Hoşten and K. V. S. Sastry 111 Empirical correlations for the prediction of cake dewatering characteristics

A. E. Saba, S. E. Afifi and A. E. El-Sherief 121 Anode conditioning for alkaline tin refining

D. B. Ogbonlowo 131 *Technical Note*
Comparison of some synthetic resins with bentonite as binders for blast-furnace pellet production

B. Keyworth 137 *Book Reviews*
Flash Smelting: Analysis, Control and Optimization, by *W. G. Davenport and E. H. Partelpoeg*

B. A. Wills 138 Silver—Exploration, Mining and Treatment

D. E. Jenkinson 141 *Conference Reports*
The Industrial Practice of Fine Coal Processing

R. C. Villas Boas 141 XIII National Meeting on Mineral Treatment and Hydrometallurgy, Brazil

S. T. Hall 142 2nd International Mineral Processing Symposium

B. A. Wills 143 International Symposium on Research and Development in Extractive Metallurgy of Tin and Related Metals

145 Calendar on International Conferences, Symposia, Courses and Meetings of Interest

147 Recent Mineral Processing Publications

Volume 2, Number 2

1989

D. Hodouin, F. Flament and C. Bazin 157 Reliability of material balance calculations: a sensitivity approach

C. I. House and C. J. Veal 171 Selective recovery of chalcopyrite by spherical agglomeration

M. Vanangamudi and T. C. Rao 185 A model for the prediction of fines recovery in batch coal flotation

E. G. Kelly and D. J. Spottiswood 193 The theory of electrostatic separations: a review. Part II. Particle charging

P. W. Kingston and W. F. Caley 207 Nepheline syenite as a synthetic slag addition in secondary steelmaking

B.-M. Antti and E. Forssberg 217 Pulp chemistry in industrial mineral flotation. Studies of surface complex on calcite and apatite surfaces using FTIR spectroscopy

R. W. Smith and J. A. Rajala 229 Temperature requirements of dodecyl and hexadecyl-sulphate flotation of calcium activated quartz

G. K. N. S. Subasinghe, W. Schaap and E. G. Kelly 235 Modelling the screening process—an empirical approach

Y. Dubé and D. Hodouin 245 Adaptive control of a laboratory grinding circuit

A. J. Clarke and B. A. Wills 259 *Technical Notes*
Enhancement of cassiterite liberation by high pressure roller comminution

A. M. Ranjitham and P. R. Khangaonkar 263 Hydration of calcined magnesite at elevated temperatures under turbulent conditions

J. A. Finch 271 *Book Reviews*
Mineral Processing. Vol. 2—Concentration, Flotation, Separation, Backup Processes, *by G. Tarjan*

J. A. Ralston 272 Froth Flotation, *edited by S. H. Castro and J. Alvarez*

C. V. Phillips 273 Gold Mining 87, *edited by C. O. Brawner*

S. T. Hall 274 Production and Processing of Fine Particles, *edited by A. J. Plumbton*

B. A. Wills 277 Industrial Practice of Fine Coal Processing, *edited by R. R. Kliment and P. T. Luckie*

B. A. Wills 278 Precious and Rare Metal Technologies, *edited by A. E. Torma and I. H. Gundiler*

G. Ozbayoglu 279 Pelletization of Fines, *by J. Srb and Z. Ruzickova*

G. Wonnacott 281 *Conference Reports*
118th SME/AIME/TMS Annual Meeting and 21st APCOM

S. T. Hall 283 Mineral Processing in the United Kingdom

285 Calendar of International Conferences, Symposia, Courses and Meetings of Interest

291 Recent Mineral Processing Publications

298 Information for Contributors

Volume 2, Number 3 **1989**

M. D. Bale and A. V. May 299 Processing of ores to produce tantalum and lithium

T. Lager and K. S. E. Forssberg 321 Beneficiation characteristics of antimony minerals: a review. Part 1

E. G. Kelly and D. J. Spottiswood 337 The theory of electrostatic separations: a review. Part III. The separation of particles

D. N. Sutherland 351 Batch flotation behaviour of composite particles

R. Espinosa-Gomez, N. W. Johnson and J. A. Finch 369 Evaluation of flotation column scale-up at Mount Isa Mines Limited

M. Falutsu and G. S. Dobby 377 Direct measurement of froth drop back and collection zone recovery in a laboratory flotation column

T. Chmielewski and J. Lekki 387 Electrochemical investigation on adsorption of potassium ethyl xanthate on galena

P. Stonestreet and J.-P. Franzidis 393 Development of the reverse coal flotation process: depression of coal in the concentrates

T. C. Rao, B. Govindarajan and M. Vanangamudi 403 A kinetic model for batch coal flotation

A. Y. Hosny, T. J. O'Keefe and W. J. James 415 Hull cell technique for evaluating zinc sulfate electrolytes

K. S. Narasimhan, R. Bhima Rao and B. Das 425 *Technical Note*
Characterisation and concentration of laterites

<i>Book Reviews</i>	
B. A. Wills	431 Challenges in Mineral Processing, edited by K. V. S. Sastry and M. C. Fuerstenau
M. J. Howes	435 Dust Control Handbook by V. Mody and R. Jakhete
B. A. Wills	435 Computer Software in Chemical and Extractive Metallurgy by W. T. Thompson, F. Ajersch and G. Eriksson
<i>Conference Report</i>	
N. A. Warner	437 Extraction Metallurgy '89
	439 Calendar of International Conferences, Symposia, Courses and Meetings of Interest
	443 Recent Mineral Processing Publications
	i New Patents

Volume 2, Number 4

1989

C. Komnitsas and F. D. Pooley	449 Mineralogical characteristics and treatment of refractory gold ores
K. J. Henley	459 A combined mineralogical/metallurgical approach to determining the nature and location of gold in ores and mill products
T. J. Veasey, A. L. Penhallow and A. J. Elliott	471 Mineralogy and mill performance optimization—a case study of South Crofty tin mine
D. B. Hyma and J. A. Meech	481 Preliminary tests to improve the iron recovery from the -212 micron fraction of new spiral feed at Quebec Cartier Mining Company
T. Koskinen and H. Torvela	489 Energy balance and operation equations of a copper flash smelting furnace based on the superposition principle
S. G. Allard and R. W. Smith	501 Steam stripping of ethanol laden carbon
M. Vanangamudi and T. C. Rao	511 Development of an index for the floatability of Indian coal fines
M. S. Prasad	521 Production of copper and cobalt at Gecamines, Zaire
T. Lager and K. S. E. Forssberg	543 Current processing technology for antimony-bearing ores: a review. Part 2
J. A. Finch and G. Labonté	<i>Technical Notes</i>
	557 Verification of electrodes for pulp potential measurement

J. A. Finch and C. O. Gomez 565 Separability curves from image analysis data

R. W. Barley *Book Reviews*
569 Extraction Metallurgy '89

B. A. Wills 573 Mineral Processing in the United Kingdom, edited by P. A. Dowd
573 Third Mill Operators Conference
573 Processing of Complex Ores, edited by G. S. Dobby and S. R. Rao
573 Tailings and Effluent Management, edited by M. E. Chalkley, B. R. Conard, V. I. Lakshmanan and K. G. Wheeland
574 Primary and Secondary Lead Processing, edited by M. J. Jaeck
574 Production and Electrolysis of Light Metals, edited by B. Closset

R. P. Edwards 574 Mineral Resources: Geology, Exploration and Development, by W. H. Dennen

D. Yan *Conference Reports*
577 Column flotation workshop

C. T. O'Connor 577 International Colloquium on Developments in Froth Flotation

S. T. Hall 580 International Symposium on the Processing of Complex Ores

B. A. Wills 582 International Comminution Symposium
585 Calendar of International Conferences, Symposia, Courses and Meetings of Interest
589 Recent Mineral Processing Publications
i New Patents

